

CLAIMS

1. A small swing type excavator, wherein an upper rotating body is mounted rotatably around a vertical shaft on a lower traveling body, rotating radius of a rear end of said upper rotating body being set to about one half of the width of said lower traveling body and devices being mounted on a rotating frame of said upper rotating body, characterized in that an operator cab is disposed on one lateral side on said rotating frame, and that an air conditioner and a fuel tank are provided, respectively, on an inner and an outer side in the width direction of the excavator in a space under a floor of said operator cab, said fuel tank comprising an extension portion extending to at least the front surface side of said air conditioner.

2. The small swing type excavator according to claim 1, wherein said fuel tank is detachably attached to said rotating frame in such a condition that said extension portion extends along at least the front surface side of said air conditioner, and an opening portion capable of taking said fuel tank inside and outside therethrough is provided in an outer peripheral wall of said rotating frame.

3. The small swing type excavator according to claim 2, wherein a cover portion adapted to cover said opening portion is further provided in the outer peripheral wall of said rotating frame.

4. A small swing type excavator, wherein an upper rotating body is mounted rotatably around a vertical shaft on a lower traveling body, rotating radius of a rear end of said upper rotating body being set to about one half of

the width of said lower traveling body and devices being mounted in a rotating frame of said upper rotating body, characterized in that:

a power source is disposed in a rear section of said rotating frame in such a manner that said power source laterally stretches long and both lateral ends of said power source are longitudinally shifted each other to be inclined;

a hydraulic pump is disposed on one end side closer to the rear side of both the lateral ends of said power source, while a cooling device is disposed on the other end side closer to the front side of both the lateral ends;

a fuel tank is disposed in front of said hydraulic pump through a predetermined space; and

a hydraulic oil tank is disposed in said predetermined space.

5. The small swing type excavator according to claim 4, wherein said fuel tank is disposed on one end side across a swivel joint mounted at the center of rotation, while a control valve is disposed on the other end side, said fuel tank and said control valve being in front of said power source.

6. The small swing type excavator according to claim 4, wherein an operator cab is disposed on an upper surface of one lateral side of said rotating frame, and said fuel tank is arranged under a floor of said operator cab.

7. The small swing type excavator according to claim 4, wherein said hydraulic oil tank is formed into a fan shape in such a manner that said hydraulic oil tank spreads outward from said rotating frame when viewed vertically.

8. The small swing type excavator according to claim 4, wherein said hydraulic oil tank is formed in such a manner that at least a part thereof reaches to under said hydraulic pump.

9. The small swing type excavator according to claim 5, wherein said rotating frame comprises an opening portion for maintenance at the end on the side where said control valve and said cooling device are provided, and a cover portion adapted to cover said opening portion.

10. A small swing type excavator, wherein an upper rotating body is mounted rotatably around a vertical shaft on a lower traveling body, and wherein a working device is attached pivotally at a front end of said upper rotating body, rotating radius of a rear end of said upper rotating body being set to about one half of the width of said lower traveling body and devices being mounted on a rotating frame of said upper rotating body, characterized in that:

a hydraulic pump, a power source and a cooling device are disposed laterally in a line as rear row devices in a rear section of said rotating frame; and

in front of said rear row devices, a control valve and a hydraulic oil tank are disposed in a line on one lateral side centering on a swivel joint, while a fuel tank is disposed on the other lateral side, said control valve, said hydraulic oil tank and said fuel tank constituting front row devices.

11. The small swing type excavator according to claim 10, wherein a swinging motor is disposed between said swivel joint and said hydraulic oil tank.

12. The small swing type excavator according to claim 10, wherein an air conditioner is disposed between said swivel joint and said fuel tank.

13. The small swing type excavator according to claim 10, wherein said fuel tank is arranged under a floor of an operator cab mounted on said upper rotating body.

14. The small swing type excavator according to claim 10, wherein said rear row devices are arranged laterally in the order of hydraulic pump, power source and cooling device, while said front row devices are arranged laterally in the order of fuel tank, swivel joint, hydraulic oil tank and control valve, said fuel tank being arranged under a floor of an operator cab mounted on said upper rotating body and said hydraulic pump being located in a rear side of said fuel tank.

15. The small swing type excavator according to claim 10, wherein that a battery is disposed on the outside of said fuel tank laterally.

16. The small swing type excavator according to claim 14, wherein an air conditioner is disposed over the floor of said operator cab.

17. The small swing type excavator according to claim 14, wherein that a suction pipe that communicates said hydraulic pump and said control valve is guided under the floor of said operator cab, while a pilot pipe that communicates said control valve and a pilot valve disposed over the floor of said operator cab is guided over the floor of said operator cab.

18. The small swing type excavator according to claim 14, wherein a swinging motor is disposed in front or rear of said swivel joint.

19. The small swing type excavator according to claim 14, wherein an oil filler port of said fuel tank is disposed in the rear section thereof and above said hydraulic pump.

20. The small swing type excavator according to claim 14, wherein an operation pattern switching valve for switching a motion pattern of an actuator according to an operation of an operation means among multiple motion patterns is disposed in front of said hydraulic oil tank.

21. The small swing type excavator according to claim 14, wherein an operation lock means for locking actuators hydraulically to be inoperative is disposed in the vicinity of said hydraulic oil tank in front or rear of said control valve.